Biological Conservation **73** (1995) i–iii
© 1995 Elsevier Science Limited
Printed in Great Britain. All rights reserved

Contents of Volume 73

Number 1

1 Using geographic information systems (GIS) to determine the adequacy of sampling in vegetation surveys
V. J. NELDNER, D. C. CROSSLEY & M. COFINAS (Australia)

19 Cattle predation by the golden jackal *Canis aureus* in the Golan Heights, Israel
Y. YOM-TOV, S. ASHKENAZI & O. VINER (Israel)

23 Asian rhinos *Rhinoceros unicornis* on the run? Impact of tourist visits on one population
D. F. LOTT & M. MCCOY (USA)

27 Survey of broad-snouted caiman *Caiman latirostris*, marsh deer *Blastocerus dichotomus* and capybara *Hydrochaeris hydrochaeris* in the area to be inundated by Porto Primavera Dam, Brazil
G. MOURÃO & Z. CAMPOS (Brazil)

33 Exploitation of the window-pane shell *Placuna placenta* in the Philippines
W. G. GALLARDO, S. V. SIAR & V. ENCENA II (Philippines)

39 Measuring more of biodiversity: genus richness as a surrogate for species richness in Australian ant faunas
A. N. ANDERSON (Australia)

45 Fire enhances weed invasion of roadside vegetation in southwestern Australia
P. MILBERG (Sweden) & B. B. LAMONT (Australia)

51 The impact of extreme weather on habitat preference and survival in a metapopulation of the bush cricket *Metrioptera bicolor* in Sweden
O. KINDVALL (Sweden)

59 Estimating rates of butterfly decline from distribution maps: the effect of scale
C. D. THOMAS & J. C. G. ABERY (UK)

67 The differential effects of elephants on rain forest communities in the Shimba Hills, Kenya
R. HÖFT & M. HÖFT (France)

81 Traditional management of scrubland for the conservation of rabbits *Oryctolagus cuniculus* and their predators in Doñana National Park, Spain
S. MORENO & R. VILLAFUERTE (Spain)

87 Selected Abstracts

Number 2

Special Issue: Applications of Population Viability Analysis to Biodiversity Conservation

91 Introduction
T. W. NORTON (Australia)

93 Sensitivity analysis for models of population viability
M. A. MCCARTHY, M. A. BURGMAN (Australia) & S. FERSON (USA)

101 Correlations, dependency bounds and extinction risks
S. FERSON (USA) & M. A. BURGMAN (Australia)

107 Can PVA models using computer packages offer useful conservation advice? Sooty shearwaters (*Puffinus griseus*) in New Zealand as a case study
S. HAMILTON & H. MOLLER (New Zealand)

119 A simulation study of the impacts of population subdivision on the mountain brushtail possum *Trichosurus caninus* Ogilby (Phalangeridae: Marsupialia), in south-eastern Australia.
I. Demographic stability and population persistence
D. B. LINDENMAYER (Australia) & R. C. LACY (USA)

131 A simulation study of the impacts of population subdivision on the mountain brushtail possum *Trichosurus caninus* Ogilby (Phalangeridae: Marsupialia), in south-eastern Australia.
II. Loss of genetic variation within and between sub-populations
R. C. LACY (USA) & D. B. LINDENMAYER (Australia)

143 ALEX: A model for the viability analysis of spatially structured populations
H. P. POSSINGHAM (UK) & I. DAVIES (Australia)

151 Modelling the reintroduction of the greater bilby *Macrotis lagotis* using the metapopulation model Analysis of the Likelihood of EXtinction (ALEX)
R. SOUTHGATE & H. POSSINGHAM (Australia)

161 Area requirements for viable populations of the Australian gliding marsupial *Petaurus australis*
R. GOLDINGAY & H. POSSINGHAM (Australia)

169 Linking landscape data with population viability analysis: management options for the helmeted honeyeater *Lichenostomus melanops cassidix*
H. R. AKÇAKAYA (USA), M. A. MCCARTHY & J. L. PEARCE (Australia)

Number 3

177 Effect of road traffic on amphibian density
L. FAHRIG, J. H. PEDLAR, S. E. POPE, P. D. TAYLOR & J. F. WEGNER (Canada)

183 Conservation and management of Gir Lion Sanctuary and National Park, Gujarat, India
J. A. KHAN (India)

189 Winter population estimates for selected waterfowl species in Britain
J. S. KIRBY (UK)

199 Restoration of Amsterdam Island, South Indian Ocean, following control of feral cattle
T. MICOL & P. JOUVENTIN (France)

207 Responses to severe fires in heathland mosaics in Southern England
J. M. BULLOCK & N. R. WEBB (UK)

215 The effects of herbivory and vegetation on laboratory-raised *Dactylorhiza praetermissa* (Orchidaceae) planted into grassland in Southern England
S. L. MCKENDRICK (UK)

221 Factors affecting the abundance of butterflies in field boundaries in Swavesey fens, Cambridgeshire, UK
T. H. SPARKS & T. PARISH (UK)

229 Tropical forest vegetation of Xishuangbanna, SW China and its secondary changes, with special reference to some problems in local nature conservation
J. ZHANG & M. CAO (China)

239 The conservation of arboreal marsupials in the montane ash forests of the central highlands of Victoria, south-eastern Australia—VII. Modelling the persistence of Leadbeater's possum in response to modified timber harvesting practices
D. B. LINDENMAYER (Australia) & H. P. POSSINGHAM (UK)

i Contents of Volume 73